

**Docket No.: 56959/N75**  
**Amdt date January 25, 2006**

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) Method of fixing to the surface of a first part (1) composed of a metal material a second metal material (4) by melting a brazing alloy (3) adapted to the second material, the first material being composed of an intermetallic Ti-Al alloy, characterised in that a layer of nickel (2) is interposed between the first part (1) and the brazing alloy (3).
2. (Original) Method according to claim 1, wherein the second material is in the form of a second preformed part (4) and wherein the layer of nickel (2) and the brazing alloy (3) are pressed between the first and second parts (1, 4).
3. (Original) Method according to claim 1, wherein the second material is in the form of a coating which is applied to the assembly formed by the first part, the layer of nickel and the brazing alloy.
4. (Currently amended) Method according to ~~one of the preceding claims~~ claim 1, wherein the layer of nickel is in the form of a preformed sheet (2).
5. (Currently amended) Method according to ~~one of claims 1 to 3~~ claim 1, wherein the layer of nickel is in the form of a covering.
6. (Original) Method according to claim 5, wherein the covering of nickel is deposited by electrolytic means.
7. (Currently amended) Method according to ~~one of the preceding claims~~ claim 1, wherein the layer of nickel (2) has a thickness of at least 30  $\mu\text{m}$  and preferably of at least 40  $\mu\text{m}$ .

**Docket No.: 56959/N75**  
**Amdt date January 25, 2006**

8. (Currently amended) Method according to ~~one of the preceding claims~~ claim 1, wherein the second material is a nickel-based alloy.
9. (Currently amended) Method according to ~~one of the preceding claims~~ claim 1, wherein the whole to be treated is brought to a temperature higher than the melting temperature of the brazing alloy for at least 10 minutes in a vacuum.
10. (Original) Method according to claim 9, wherein the method is carried out under a residual pressure of less than  $10^{-3}$  Pa.
11. (Currently amended) Composite metal part such as can be obtained by the method according to ~~one of the preceding claims~~ claim 1, comprising a substrate (1) composed of an intermetallic Ti-Al alloy, covered with a plurality of successive layers, notably a first layer (5) containing the phases  $\alpha_2$ -Ti<sub>3</sub>Al,  $\tau_2$ -Ti<sub>2</sub>AlNi and  $\tau_3$ -TiAlNi, second, third and fourth layers (6, 7, 2) formed respectively of the phases  $\tau_4$ -TiAlNi<sub>2</sub> and  $\gamma'$ -Ni<sub>3</sub>Al and of nickel, and a fifth layer (8) of brazing alloy connecting the fourth layer (2) to another metal material (4).
12. (Currently amended) Composite metal Ppart according to claim 11, wherein the first layer (5) contains islets (5-1) of  $\alpha_2$ -Ti<sub>3</sub>Al dispersed in a polyphase matrix (5-2) comprising  $\tau_2$ -Ti<sub>2</sub>AlNi and  $\tau_3$ -TiAlNi.
13. (Currently amended) Composite metal Ppart according to claim 11, wherein the first layer comprises a first sub-layer of  $\alpha_2$ -Ti<sub>3</sub>Al and a second polyphase sub-layer comprising  $\tau_2$ -Ti<sub>2</sub>AlNi and  $\tau_3$ -TiAlNi.
14. (Currently amended) Composite metal Ppart according to claim 11, wherein the first layer comprises a first sub-layer of  $\alpha_2$ -Ti<sub>3</sub>Al, a second sub-layer of  $\tau_2$ -Ti<sub>2</sub>AlNi and a third sub-layer of  $\tau_3$ -TiAlNi.
15. (Currently amended) Composite metal Ppart according to ~~any of claims 11 to 14~~ claim 11, wherein the said other metal material (4) is a nickel-based alloy.